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What is claimed is:

1. A diamond blade having rim type cutting tip for use in grinding or cutting apparatus comprising ;

5 a wheel body connected with a shaft of electric motor, and said rim type cutting tip for cutting or grinding crushable materials disposed on the circumference of said wheel body and composed of at least two diamond layers longitudinally disposed parallel with the rotation direction of the blade in which diamond particles are included, and (non-diamond portion) disposed between the diamond layers in which (diamond particles are not included).

2. A diamond blade as claimed in claim 1, wherein said diamond layers are each other disposed at predetermined intervals perpendicular with the rotation direction of the blade between non-diamond portions of cutting tip.

3. A diamond blade as claimed in claim 1, wherein said diamond layers are only on inner and outer surface of rim type cutting tip.

4. A diamond blade as claimed in claim 1, wherein diamond particles in each diamond layer of rim type cutting tip are distributed in a given pattern or arrangement.

5. A diamond blade as claimed in claim 4, wherein diamond particles in each diamond layer of rim type cutting tip are distributed in single layer figure with grid shaped spots.

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6. A diamond blade as claimed in claim 4, wherein diamond particles in each diamond layer of rim type cutting tip are distributed in double layer figure with grid shaped spots.

5 7. A diamond blade as claimed in claim 1, wherein diamond particles in each diamond layer of rim type cutting tip are randomly distributed.

10 8. A diamond blade as claimed in claim 1, wherein in said non-diamond portion of rim type cutting tip, diamond particles are distributed in the density lower than that of diamond layers.

9. A diamond blade having rim type cutting tip for use in cutting or grinding apparatus comprising ;
a wheel body connected with a shaft of electric
15 motor, and said rim type cutting tip for cutting or grinding crushable materials disposed on the circumference of said wheel body and composed of non-diamond portion having a plurality of depressed portions disposed at predetermined intervals to cross each other in inner and
20 outer surfaces of non-diamond portion, and a plurality of diamond layers longitudinally disposed parallel with the rotation direction of the blade respectively on bottom surfaces of depressed portions of non-diamond portion and inner and outer surfaces of non-diamond portion divided
25 by depressed portions thereof.

10. A diamond blade as claimed in claim 9, wherein all bottom surfaces of depressed portions of non-diamond portion are positioned in the plane forming the center

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between inner and outer surfaces of non-diamond portion to let diamond layers disposed thereon to form one cutting line during the cutting operation of blade.

5 11. A diamond blade as claimed in claim 9, wherein the depth of all bottom surfaces of depressed portions of inner and outer surfaces of non-diamond portion is set up to be less than a half of the entire thickness of non-diamond portion to let diamond layers disposed thereon to form two linear cutting line during the cutting
10 operation of blade.

12. A diamond blade as claimed in claim 9, wherein diamond particles in each diamond layer of rim type cutting tip are distributed in a given pattern or arrangement.

15 13. A diamond blade as claimed in claim 12, wherein diamond particles in each diamond layer of rim type cutting tip are distributed in single layer figure with grid shaped spots.

20 14. A diamond blade as claimed in claim 12, wherein diamond particles in each diamond layer of rim type cutting tip are distributed in double layer figure with grid shaped spots.

15. A diamond blade as claimed in claim 9, wherein diamond particles in each diamond layer of rim type cutting tip are randomly distributed.

25 16. A diamond blade as claimed in claim 9, wherein in said non-diamond portion of rim type cutting tip, diamond

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particles are distributed in the density lower than that of diamond layers.

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